

CENTRAL INTELLIGENCE AGENCY
OFFICIAL ROUTING SLIP

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REMARKS: pre review for practicality
and use as Design plan guide.

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SECRET CONFIDENTIAL RESTRICTED UNCLASSIFIED

CHARACTERISTICS OF CARGO CHUTE LOCATOR SYSTEM

Prop. 2057.

1. There is a requirement for a system which will accomplish the following:
 - a. Aid in locating a cargo parachute dropped on a re-supply mission where the recipient is already on the ground in the drop area.
 - b. Aid in locating a cargo chute when it and the recipient are dropped at approximately the same time.
 - c. Aid in the rendezvous of a number of chutists who have dropped into the same general area at about the same time.
2. It is visualized that the system will consist of two basic components:
 - a. Component "A" which in effect will be an omni directional beacon to mark a certain geographical spot.
 - b. Component "B" which will be carried on the person of an individual and which will give an indication of the azimuth of the beacon (component "a") in relation to component "B".
3. General Characteristics

The system shall perform its function satisfactorily over a minimum distance of $\frac{1}{4}$ mile regardless of the nature of terrain, or weather, and during day or night. It shall be as simple to operate and as foolproof as the state of the art permits. It may or may not use electronic techniques. Mission shall not be detectable by persons not using special detecting devices.
4. Special characteristics
 - a. Component "A"
 1. Weight : 5 lbs max
 2. Size: not critical, ~~must be self-contained~~ within reasonable limits !!!!
 3. Form Factor: not critical, must be completely self-contained.
 4. Ruggedness: capable of functioning during and after normal parachute drop.
 5. Service life: Should operate approximately 30 minutes after drop.
 6. Frequency stability (if radio): High stability not needed.
 7. Emission (if radio): A2 suggested: signal must be distinctive.
 8. Channels: one channel preset.
 9. Construction: Is considered "one shot" deal. Need not be waterproofed, fungus proofed or tropicalized. (seal in cans during storage). Should be sterile in external appearance.
 10. Finish: camouflage: non-reflecting.
 - b. Component "B"
 1. Weight: 5 lbs maximum
 2. Size: not to exceed 36 cubic inches (exclusive of antenna -if radio).
 3. Form factor: must be self contained. Should be designed to be carried on the person of the chutist and operated by him while in motion. Once placed in operation, it should not require further adjustments. The chutist's hands must be free.
 4. Ruggedness: capable of withstanding very rough treatment.
 5. Service life: minimum of two hours. Renewable.
 6. Frequency stability; compatible with component "a"
 7. Channels : six fixed preset. (if radio) May have variable range in addition ~~to the preset~~ if other applications dictate.
 8. Construction: strong, shockproof, fungusproof, tropicalized; sterile in external appearance. to be provided with waterproof burial case.
 9. Finish: camouflage; non-reflecting.

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DATE 4/12/80